



Gulf of Mexico Harmful Algal Bloom Bulletin

7 July 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: July 5, 2005

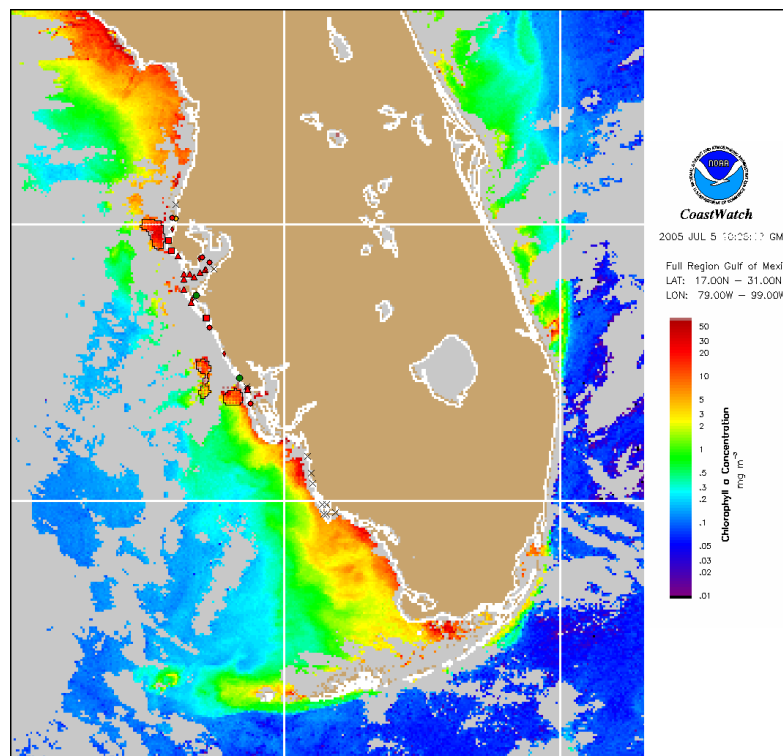
Conditions: A harmful algal bloom has been identified from northern Pinellas to northern Lee County. Patchy very low to low impacts possible in Pinellas, Manatee, and northern Sarasota Counties in bayside vicinities and coastal beaches through Sunday. Patchy very low impacts are possible from middle Sarasota County to northern Lee County through Sunday. Dead fish have been reported in the past few days from central Pinellas to southern Manatee County.

Analysis: The bloom persists in bays and along the coast from northern Pinellas to northern Lee County. Clouds obscure exact extents and chlorophyll levels along the coast, but a wind-transport model indicates net movement has been negligible since the last bulletin stated the north/south extent as 28°9'N 82°51'W to 26°34'N 82°15'W. Chlorophyll levels of approximately 10 µg/L were visible on July 5 near Indian Rocks Beach (27°52'N 82°53'W), and near Boca Grande (26°42'N 82°19'W). Samples from last week indicated medium to high levels of *Karenia brevis* from Indian Rocks to New Pass, and in Tampa Bay. Low to very low cell counts from Clearwater to Honeymoon Island, and from Siesta Key to Boca Grande, with one medium cell count at Gasparilla Pass. Southerly movement of the bloom is unlikely; northern expansion is possible through the weekend with strong southeasterly winds. Resuspension along the coast is likely due to tropical storm activity, but intensification of the bloom is unlikely. Strong easterlies and southeasterlies tomorrow through Sunday will decrease impacts along the coast, and may help dissipate the bloom.

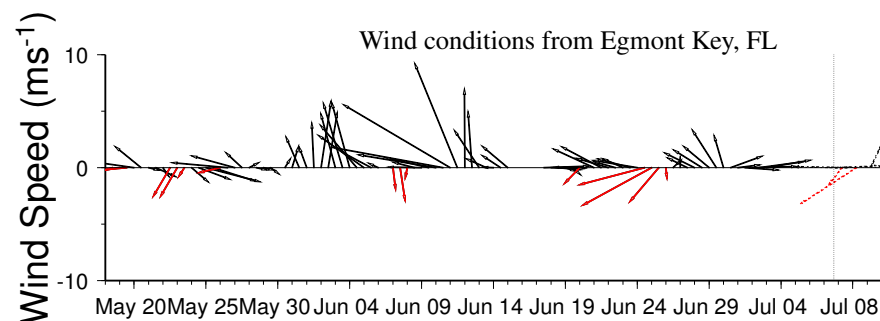
-Stolz and Fenstermacher

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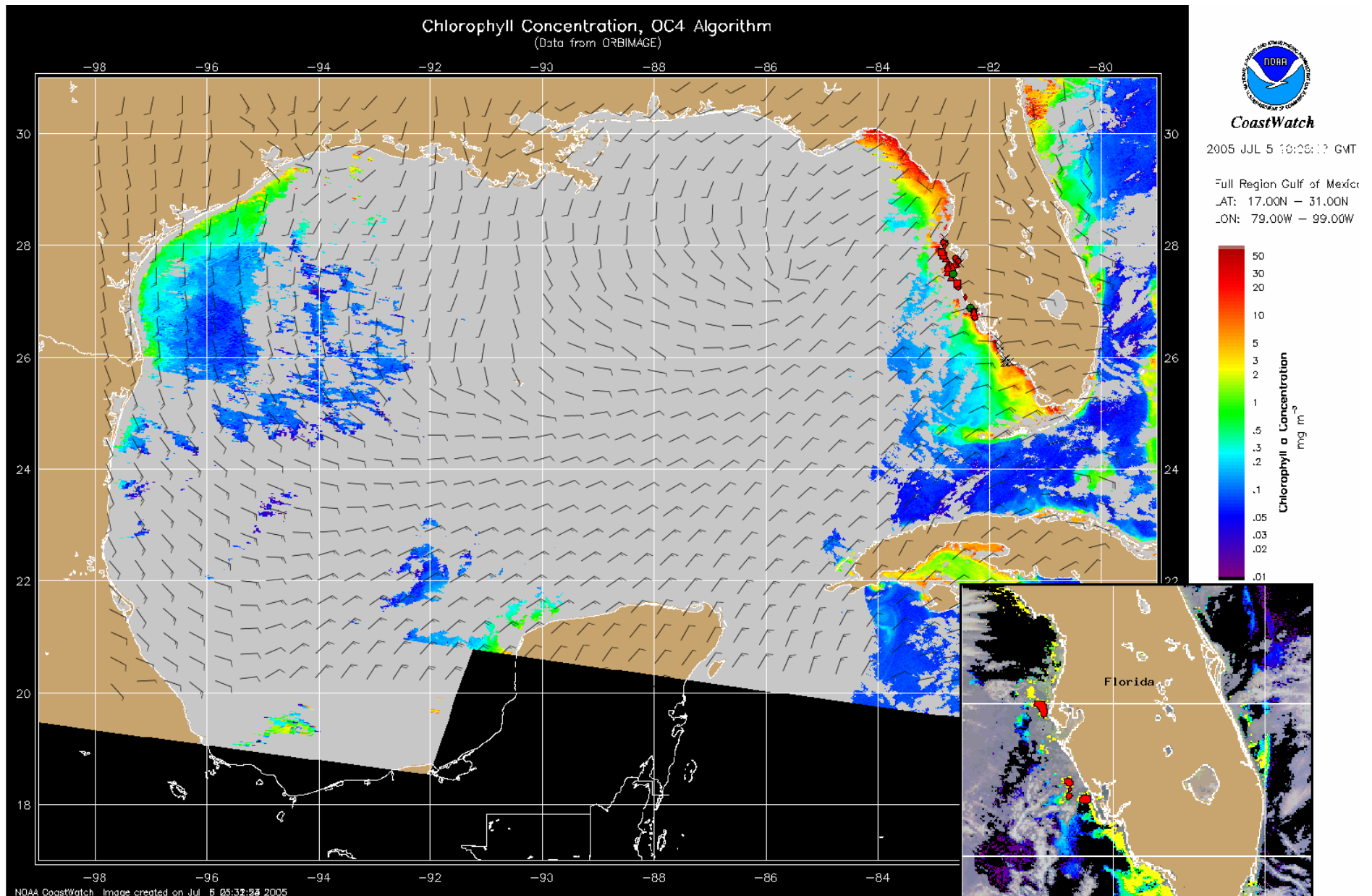


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from June 30, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

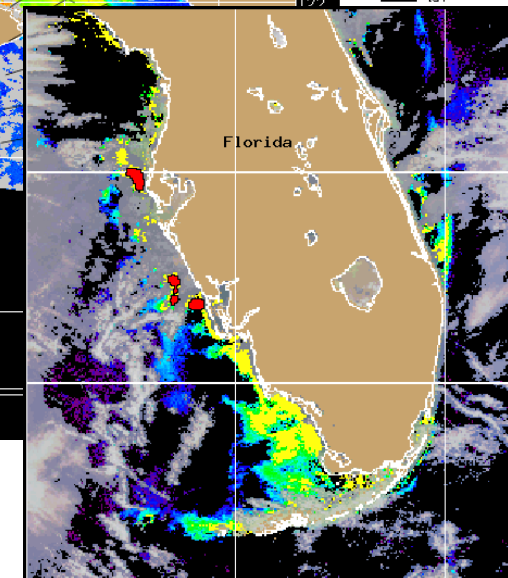


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Light and variable winds today becoming northwesterly at 5-10 knots (3-5 m/s) by evening, and becoming easterly overnight. Northeasterly winds tomorrow at 10-15 knots (5-8 m/s), picking up to 15-20 knots (8-10 m/s) from the east by Saturday. Southeasterly winds at 20-25 knots (10-13 m/s) from Saturday night through Monday.



Chlorophyll concentration from satellite and forecast winds for July 8, 2005 06Z with cell concentration sampling data from June 30, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Blooms shown in red (see p. 1 analysis)

Wind conditions from Venice Pier, FL

